



**DEPARTMENT OF THE NAVY**  
NAVAL SUPPORT ACTIVITY WASHINGTON  
1411 PARSONS AVENUE ST STE. 303  
WASHINGTON NAVY YARD DC 20374-5003

5090  
Ser N4/ 559  
December 9, 2016

Ms. Karen Crumlish  
Chief, Drinking Water Branch (3WP21)  
EPA Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

Dear Karen Crumlish:

SUBJECT: REVISED TOTAL COLIFORM REPORT, WASHINGTON NAVY YARD

Enclosed is the Revised Total Coliform Report for the monitoring period November 2016 for the Washington Navy Yard.

If you have any questions or require further information, please contact Mr. Dane Bowker, Public Works Department Drinking Water Program Manager at 202-433-4191 or email: [dane.bowker@navy.mil](mailto:dane.bowker@navy.mil).

Sincerely,

A handwritten signature in black ink, reading "Durant S. Graves".

DURANT S. GRAVES  
Installation Environmental Program Director  
By direction of the Commanding Officer

Enclosures: 1. Total Coliform Report  
2. Certificate of Analysis

**Washington Navy Yard  
November Sampling Report**

PWS: DC0000003

First Half  
Sample Date: 11/2/2016  
Total Samples: 25  
Total Samples Negative: 22  
Total Samples Positive: 3

Second Half  
Sample Date: 11/16/2016

Sample Number	Sample Point Identifier	Sample Point Name	Collector Name	Compliance Indicator	Sample Collection		Lab Received	Lab Analysis		Sample Comments	Chlorine Residual	pH	Temp (C)	Total Coliform Analysis	E. Coliform Analysis
					Date	Time		Date	Time		Value (mg/L)			Result	Result
16K0312-01	B184	BLDG 184	Guyan Kularthne	Y	11/2/2016	811	11/2/2016	11/3/2016	1157		0.44	7.85	19.0	N	N
16K0312-02	B211	BLDG 211	Guyan Kularthne	Y	11/2/2016	844	11/2/2016	11/3/2016	1157		3.10	7.92	18.9	N	N
16K0312-03	B123	BLDG 123	Guyan Kularthne	Y	11/2/2016	917	11/2/2016	11/3/2016	1157		2.90	7.95	19.6	N	N
16K0312-04	B111	BLDG 111	Guyan Kularthne	Y	11/2/2016	943	11/2/2016	11/3/2016	1157		3.00	7.98	19.3	P	N
16K0312-05	B105	BLDG 105	Guyan Kularthne	Y	11/2/2016	1032	11/2/2016	11/3/2016	1157		3.30	7.98	20.3	P	N
16K0312-06	B22	BLDG 22	Guyan Kularthne	Y	11/2/2016	1011	11/2/2016	11/3/2016	1157		3.20	7.95	19.8	N	N
16K0312-07	B208	BLDG 208	Guyan Kularthne	Y	11/2/2016	1204	11/2/2016	11/3/2016	1157		3.20	7.90	21.5	N	N
16K1006-01	B33	BLDG 33	Guyan Kularthne	Y	11/16/2016	950	11/16/2016	11/17/2016	922		3.60	7.81	17.6	N	N
16K1006-02	B122	BLDG 122	Guyan Kularthne	Y	11/16/2016	923	11/16/2016	11/17/2016	922		3.40	7.80	17.3	N	N
16K1006-03	B166	BLDG 166	Guyan Kularthne	Y	11/16/2016	759	11/16/2016	11/17/2016	922		3.30	7.92	16.4	N	N
16K1006-04	B183	BLDG 183	Guyan Kularthne	Y	11/16/2016	1025	11/16/2016	11/17/2016	922		3.10	7.34	21.2	N	N
16K1006-05	B118	BLDG 118	Guyan Kularthne	Y	11/16/2016	1100	11/16/2016	11/17/2016	922		3.40	7.78	19.6	N	N
16K1006-06	B175	BLDG 175*	Guyan Kularthne	Y	11/16/2016	1140	11/16/2016	11/17/2016	922		2.20	7.69	19.4	N	N
16K1006-07	B212	BLDG 212	Guyan Kularthne	Y	11/16/2016	852	11/16/2016	11/17/2016	922		3.30	7.84	18.6	N	N
16K1006-08	B218	BLDG 218	Guyan Kularthne	Y	11/16/2016	824	11/16/2016	11/17/2016	922		2.80	7.95	18.6	N	N
16K0430-01	B70	BLDG 70 (U-111) +	Guyan Kularthne	Y	11/4/2016	1002	11/4/2016	11/5/2016	1200	Resample	0.55	7.78	21.5	N	N
16K0430-02	B111	BLDG 111 +	Guyan Kularthne	Y	11/4/2016	753	11/4/2016	11/5/2016	1200	Resample	2.90	7.99	19.4	N	N
16K0430-03	B33	BLDG 33 (D-111) +	Guyan Kularthne	Y	11/4/2016	813	11/4/2016	11/5/2016	1200	Resample	3.40	7.89	19.3	N	N
16K0430-04	B183	BLDG 183 (U-105) +	Guyan Kularthne	Y	11/4/2016	929	11/4/2016	11/5/2016	1200	Resample	2.50	7.84	21.5	N	N
16K0430-05	B105	BLDG 105 +	Guyan Kularthne	Y	11/4/2016	904	11/4/2016	11/5/2016	1200	Resample	3.20	7.96	19.3	P	N
16K0430-06	B22	BLDG 22 (D-105) +	Guyan Kularthne	Y	11/4/2016	838	11/4/2016	11/5/2016	1200	Resample	2.90	7.99	20.2	N	N
16K0596-01	B183	BLDG 183 (U-105) ++	Guyan Kularthne	Y	11/8/2016	920	11/8/2016	11/9/2016	1100	Resample	2.40	7.92	21.6	N	N
16K0596-02	B105	BLDG 105 ++	Guyan Kularthne	Y	11/8/2016	837	11/8/2016	11/9/2016	1100	Resample	3.10	7.99	18.5	N	N
16K0596-03	B105-2	BLDG 105 ++^	Guyan Kularthne	Y	11/8/2016	855	11/8/2016	11/9/2016	1100	Resample	3.40	7.91	18.6	N	N
16K0596-04	B22	BLDG 22 (D-105) ++	Guyan Kularthne	Y	11/8/2016	806	11/8/2016	11/9/2016	1100	Resample	3.30	7.95	16.9	N	N

\* BLDG 36 sample site was closed for renovation - BLDG 175 was chosen as a replacement sample site

+ First round of resamples taken after TC+ hits on November 2 in BLDG 105 and 111

++ Second round of samples taken after TC+ hit in BLDG 105 on November 4

++^ Alternate sample site in Men's Locker Room of BLDG 105 to replace kitchen sink sample site



## Microbac Laboratories, Inc.

Baltimore Division  
2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800  
Fax: 410-633-6553  
www.microbac.com

### COVER LETTER

Kosala De Silva  
Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045  
RE: WNY

November 03, 2016  
Report No.: 16K0312

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 11/02/2016 15:00.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

11/3/2016

Final report reviewed by:

Curtis B. Read/Project Manager

Report issue date

*All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.*

*If we have not met or exceeded your expectations, please contact Curtis B. Read/Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at [trevor.boyce@microbac.com](mailto:trevor.boyce@microbac.com)*



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Baltimore Division

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800

Fax: 410-633-6553

www.microbac.com

### CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0312  
Reported: 11/03/2016 12:48

### SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
WNY-184	16K0312-01	Drinking Water	Grab	11/02/2016 08:11	11/02/2016 15:00
WNY-211	16K0312-02	Drinking Water	Grab	11/02/2016 08:44	11/02/2016 15:00
WNY-123	16K0312-03	Drinking Water	Grab	11/02/2016 09:17	11/02/2016 15:00
WNY-111	16K0312-04	Drinking Water	Grab	11/02/2016 09:43	11/02/2016 15:00
WNY-105	16K0312-05	Drinking Water	Grab	11/02/2016 10:32	11/02/2016 15:00
WNY-22	16K0312-06	Drinking Water	Grab	11/02/2016 10:11	11/02/2016 15:00
WNY-208	16K0312-07	Drinking Water	Grab	11/02/2016 12:04	11/02/2016 15:00

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*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Curtis B. Read, Project Manager

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Baltimore Division

2101 Van Deman Street • Baltimore, MD 21224

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Fax: 410-633-6553  
www.microbac.com

**CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0312  
Reported: 11/03/2016 12:48

**WNY-184**

**16K0312-01 (Drinking Water) Sampled: 11/02/2016 08:11; Type: Grab**

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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**Field Analysis**

<b>Analyst:</b>	0697GK	<b>pH:</b>	7.85	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	0.44	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	19.0	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

**Microbac Laboratories, Inc. - Baltimore**

**Microbiology**

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

Curtis B. Read, Project Manager

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**CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K0312  
 Reported: 11/03/2016 12:48

**WNY-211**
**16K0312-02 (Drinking Water) Sampled: 11/02/2016 08:44; Type: Grab**

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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**Field Analysis**

<b>Analyst:</b>	0697GK	<b>pH:</b>	7.92	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.1	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	18.9	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

**Microbac Laboratories, Inc. - Baltimore**
**Microbiology**

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert

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Curtis B. Read, Project Manager

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2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800

Fax: 410-633-6553

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Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0312  
Reported: 11/03/2016 12:48

### WNY-123

16K0312-03 (Drinking Water) Sampled: 11/02/2016 09:17; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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#### Field Analysis

<b>Analyst:</b>	0697GK	<b>pH:</b>	7.95	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	2.9	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	19.6	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert

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Curtis B. Read, Project Manager

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Baltimore Division

2101 Van Deman Street • Baltimore, MD 21224

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Fax: 410-633-6553

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Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0312  
Reported: 11/03/2016 12:48

### WNY-111

16K0312-04 (Drinking Water) Sampled: 11/02/2016 09:43; Type: Grab

Analyte	Result	Reporting		Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Limit								

#### Field Analysis

<b>Analyst:</b>	0697GK	<b>pH:</b>	7.98	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.0	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	19.3	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Positive</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert

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Fax: 410-633-6553

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9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0312  
Reported: 11/03/2016 12:48

### WNY-105

16K0312-05 (Drinking Water) Sampled: 11/02/2016 10:32; Type: Grab

Analyte	Result	Reporting		Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Limit								

#### Field Analysis

<b>Analyst:</b>	0697GK	<b>pH:</b>	7.98	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.3	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	20.3	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Positive</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert

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Curtis B. Read, Project Manager

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Fax: 410-633-6553

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Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0312  
Reported: 11/03/2016 12:48

### WNY-22

16K0312-06 (Drinking Water) Sampled: 11/02/2016 10:11; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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#### Field Analysis

<b>Analyst:</b>	0697GK	<b>pH:</b>	7.95	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.2	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	19.8	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

Curtis B. Read, Project Manager

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 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K0312  
 Reported: 11/03/2016 12:48

**WNY-208**
**16K0312-07 (Drinking Water) Sampled: 11/02/2016 12:04; Type: Grab**

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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**Field Analysis**

<b>Analyst:</b>	0697GK	<b>pH:</b>	7.90	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.2	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	21.5	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

**Microbac Laboratories, Inc. - Baltimore**
**Microbiology**

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

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Curtis B. Read, Project Manager

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 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K0312  
 Reported: 11/03/2016 12:48

**Project Requested Certification(s):**

 A2LA (Environmental)  
 State of Maryland (Drinking Water)

**Analyte Certification Exception Summary**

No certification exceptions

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

**Certification List**

*Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.*

Code	Description	Certification Number	Expires
<b>Microbac Laboratories, Inc. - Baltimore</b>			
A2LA1	A2LA (Biology)	410.02	04/30/2017
A2LA2	A2LA (Environmental)	410.01	04/30/2017
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460285	03/14/2017
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2017
Pb	Environmental Lead (ELLAP)	410.01	04/30/2017
MD	State of Maryland (Drinking Water)	109	06/30/2017
WV	West Virginia	054	08/31/2017
<b>Microbac Laboratories, Inc. - Richmond</b>			
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2017

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Curtis B. Read, Project Manager

**Original Report**

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Baltimore Division

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800

Fax: 410-633-6553

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### CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0312  
Reported: 11/03/2016 12:48

### Qualifiers/Notes and Definitions

#### *General Definitions:*

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



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Baltimore Division  
2101 Van Deman Street • Baltimore, MD 21224

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Fax: 410-633-6553  
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**Cooler Receipt Log**

---

<b>Cooler ID:</b>	Default Cooler	<b>Cooler Temp:</b>	0.90°C	<b>Work Order:</b>	16K0312
Custody Seals Intact:	Yes	COC/Containers Agree:		Yes	
Containers Intact:	Yes	Correct Preservation:		Yes	
Received On Ice:	Yes	Correct Number of Containers Received:		Yes	
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing:		Yes	
COC Present:	Yes	Samples Received in Proper Condition:		Yes	

---

**Comments:**

Microbac Laboratories Inc., Baltimore Division  
2101 Van Daman St, Baltimore, MD 21224  
Tel: 410-633-1800  
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## Chain of Custody Record

Page 1 of 1

<b>Customer</b> Name: <u>Inspection Experts Inc.</u> Address: <u>9220 Rumsey Road, Bay #5</u> <u>Columbia, MD 21045</u>		<b>Project Information</b> Name: <u>WNY</u> Number: <u>15-0011-214</u> PO: <u>                    </u>		<b>Turn Around Time</b> <input checked="" type="radio"/> Standard <input type="radio"/> RUSH* Needed By: <u>                    </u>		<b>Compliance</b> <input type="radio"/> Yes <input type="radio"/> No Agency: <u>                    </u>	
<b>Contact</b> Name: <u>Kosala De Silva</u> Number: <u>410-715-3939</u> Email: <u>kosala@ieinc.net</u>		<b>Sampler</b> Name: <u>Gayana Kularathne</u> Phone: <u>240-252-0841</u> Cert ID: <u>0697GK</u>		<b>Report Options</b> <input type="checkbox"/> EDD <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <u>kosala@ieinc.net</u>		<b>QC Package</b> <input checked="" type="radio"/> Level I <input type="radio"/> Level II** <input type="radio"/> Level III** <input type="radio"/> Level IV**	



16K0312

Client Sample ID	Matrix****	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analysis			Comments
								TC P/A SM9223B	PH	Temp (°C)	
WNY-184	DW	X			11/02/16	0811	1	X	7.85	19.0	0.44
WNY-211	DW	X			11/02/16	0844	1	X	7.92	18.9	3.1
WNY-123	DW	X			11/02/16	0917	1	X	7.95	19.6	2.9
WNY-111	DW	X			11/02/16	0943	1	X	7.98	19.3	3.0
WNY-105	DW	X			11/02/16	1032	1	X	7.98	20.3	3.3
WNY-22	DW	X			11/02/16	1011	1	X	7.95	19.8	3.2
WNY-208	DW	X			11/02/16	1204	1	X	7.90	21.5	3.2

<b>Possible Hazard Identification</b> <input type="checkbox"/> Hazardous <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Radioactive <input type="checkbox"/> Sample Disposition <input checked="" type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive					
<b>Number of Containers:</b> Cooler Number: <u>                    </u> Temp upon receipt (°C): <u>                    </u> Sample Received on Ice or Refrigerated from Client: <u>Yes</u> / No Radiation Scan Acceptable Yes / No	<b>Sampled By (signature)</b> <u>                    </u> Relinquished By (signature) <u>                    </u> Relinquished By (signature) <u>                    </u>	<b>Printed Name/Affiliation</b> <u>Gayana Kularathne</u> <u>                    </u> <u>                    </u>	<b>Date/Time</b> <u>11/02/16 15:44</u> <u>                    </u> <u>                    </u>	<b>Received By (signature)</b> <u>                    </u> Received for Lab By (signature) <u>                    </u>	<b>Printed Name/Affiliation</b> <u>                    </u> <u>                    </u> <u>                    </u>

\*\*\* Sampler certification ID needed for some agencies.  
 Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid (S), Oil(O), Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

Instructions for completing the Chain of Custody Record



## Microbac Laboratories, Inc.

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### COVER LETTER

Kosala De Silva  
Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045  
RE: WNY

November 21, 2016  
Report No.: 16K1006

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 11/16/2016 13:10.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

11/21/2016

Final report reviewed by:

Curtis B. Read/Project Manager

Report issue date

*All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.*

*If we have not met or exceeded your expectations, please contact Curtis B. Read/Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at [trevor.boyce@microbac.com](mailto:trevor.boyce@microbac.com)*





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Baltimore Division

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Fax: 410-633-6553

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## CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K1006  
Reported: 11/21/2016 11:05

## SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
WNY-33	16K1006-01	Drinking Water	Grab	11/16/2016 09:50	11/16/2016 13:10
WNY-122	16K1006-02	Drinking Water	Grab	11/16/2016 09:23	11/16/2016 13:10
WNY-166	16K1006-03	Drinking Water	Grab	11/16/2016 07:59	11/16/2016 13:10
WNY-183	16K1006-04	Drinking Water	Grab	11/16/2016 10:25	11/16/2016 13:10
WNY-118	16K1006-05	Drinking Water	Grab	11/16/2016 11:00	11/16/2016 13:10
WNY-175	16K1006-06	Drinking Water	Grab	11/16/2016 11:40	11/16/2016 13:10
WNY-212	16K1006-07	Drinking Water	Grab	11/16/2016 08:52	11/16/2016 13:10
WNY-218	16K1006-08	Drinking Water	Grab	11/16/2016 08:24	11/16/2016 13:10

Microbac Laboratories, Inc. - Baltimore

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Curtis B. Read, Project Manager

Original Report

Page 2 of 14

**CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K1006  
 Reported: 11/21/2016 11:05

**WNY-33**
**16K1006-01 (Drinking Water) Sampled: 11/16/2016 09:50; Type: Grab**

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
---------	--------	--------------------	-------	--------	----------	----------	---------	--------	-------

**Field Analysis**

<b>Analyst:</b>	NA	<b>pH:</b>	7.81	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.6	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	17.6	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

**Microbac Laboratories, Inc. - Baltimore**
**Microbiology**

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

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Curtis B. Read, Project Manager

**Original Report**

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## CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K1006  
Reported: 11/21/2016 11:05

### WNY-122

16K1006-02 (Drinking Water) Sampled: 11/16/2016 09:23; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
<b>Field Analysis</b>									
<b>Analyst:</b>	NA	<b>pH:</b>	7.80	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.4	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	17.3	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

Curtis B. Read, Project Manager

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## CERTIFICATE OF ANALYSIS

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9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K1006  
Reported: 11/21/2016 11:05

### WNY-166

16K1006-03 (Drinking Water) Sampled: 11/16/2016 07:59; Type: Grab

Reporting											
Analyte	Result			Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.92	Flow (g/min):	NA	Res. Cl (mg/L):	3.3	GW Elev.(ft):	NA		
Temp. (C):	16.4	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA		
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA		

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert

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Curtis B. Read, Project Manager

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9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K1006  
Reported: 11/21/2016 11:05

### WNY-183

16K1006-04 (Drinking Water) Sampled: 11/16/2016 10:25; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
<b>Field Analysis</b>									
<b>Analyst:</b>	NA	<b>pH:</b>	7.34	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.1	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	21.2	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

Curtis B. Read, Project Manager

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9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K1006  
Reported: 11/21/2016 11:05

### WNY-118

16K1006-05 (Drinking Water) Sampled: 11/16/2016 11:00; Type: Grab

Reporting											
Analyte	Result			Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.78	Flow (g/min):	NA	Res. Cl (mg/L):	3.4	GW Elev.(ft):	NA		
Temp. (C):	19.6	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA		
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA		

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

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Curtis B. Read, Project Manager

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9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K1006  
Reported: 11/21/2016 11:05

### WNY-175

16K1006-06 (Drinking Water) Sampled: 11/16/2016 11:40; Type: Grab

Analyte	Result	Reporting		Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Limit								

#### Field Analysis

<b>Analyst:</b>	NA	<b>pH:</b>	7.69	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	2.2	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	19.4	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

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Curtis B. Read, Project Manager

Original Report



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## CERTIFICATE OF ANALYSIS

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Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K1006  
Reported: 11/21/2016 11:05

### WNY-212

16K1006-07 (Drinking Water) Sampled: 11/16/2016 08:52; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
<b>Field Analysis</b>									
<b>Analyst:</b>	NA	<b>pH:</b>	7.84	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.3	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	18.6	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

Curtis B. Read, Project Manager

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Original Report

Page 9 of 14



**CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K1006  
 Reported: 11/21/2016 11:05

**WNY-218**
**16K1006-08 (Drinking Water) Sampled: 11/16/2016 08:24; Type: Grab**

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
<b>Field Analysis</b>									
<b>Analyst:</b>	NA	<b>pH:</b>	7.95	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	2.8	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	18.6	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

**Microbac Laboratories, Inc. - Baltimore**
**Microbiology**

<b>Coliform, Total</b>	<b>Negative</b>		per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>		per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

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Curtis B. Read, Project Manager

**Original Report**

Page 10 of 14

**CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K1006  
 Reported: 11/21/2016 11:05

**Project Requested Certification(s):**

 A2LA (Environmental)  
 State of Maryland (Drinking Water)

**Analyte Certification Exception Summary**

No certification exceptions

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

**Certification List**

*Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.*

Code	Description	Certification Number	Expires
<b>Microbac Laboratories, Inc. - Baltimore</b>			
A2LA1	A2LA (Biology)	410.02	04/30/2017
A2LA2	A2LA (Environmental)	410.01	04/30/2017
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460285	03/14/2017
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2017
Pb	Environmental Lead (ELLAP)	410.01	04/30/2017
MD	State of Maryland (Drinking Water)	109	06/30/2017
WV	West Virginia	054	08/31/2017
<b>Microbac Laboratories, Inc. - Richmond</b>			
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2017





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Baltimore Division

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Fax: 410-633-6553

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### CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K1006  
Reported: 11/21/2016 11:05

### Qualifiers/Notes and Definitions

#### *General Definitions:*

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



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Baltimore Division  
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### Cooler Receipt Log

---

<b>Cooler ID:</b>	Default Cooler	<b>Cooler Temp:</b>	1.80°C	<b>Work Order:</b>	16K1006
Custody Seals Intact:	Yes	COC/Containers Agree:		Yes	
Containers Intact:	Yes	Correct Preservation:		Yes	
Received On Ice:	Yes	Correct Number of Containers Received:		Yes	
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing:		Yes	
COC Present:	Yes	Samples Received in Proper Condition:		Yes	

---

**Comments:**



Microbac Laboratories Inc., Baltimore Division  
2101 Van Dusen St, Baltimore, MD 21224  
Tel: 410-533-1800  
www.microbac.com

# Chain of Custody Record

<b>Customer:</b> Name: Inspection Experts Inc. Address: 9220 Rumsey Road, Bay #5 Columbia, MD 21045		<b>Project Information:</b> Name: WNY Number: 15-0011-214 PO:		<b>Turn Around Time:</b> <input checked="" type="radio"/> Standard <input type="radio"/> RUSH* Needed By:		<b>Compliance:</b> <input type="radio"/> Yes <input type="radio"/> No Agency:	
<b>Contact:</b> Name: Kosala De Silva Number: 410-715-3939 Email: kosala@ieinc.net		<b>Sampler:</b> Name: Gayan Kularathne Phone: 240-252-0841 Cert ID: 0697GK		<b>Report Options:</b> <input type="checkbox"/> EDD <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax Email: kosala@ieinc.net		<b>QC Package:</b> <input checked="" type="radio"/> Level I <input type="radio"/> Level II** <input type="radio"/> Level III** <input type="radio"/> Level IV**	



16K1006

Client Sample ID	Matrix****	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analysis			Comments
								TC P/A SM 9223B	PF	Total Cl (mg/L)	
WNY-33	DW	X			11/16/16	0950	1	X	7.81	3.6	17.6
WNY-122	DW	X			11/16/16	0923	1	X	7.80	3.4	17.3
WNY-166	DW	X			11/16/16	0759	1	X	7.92	3.3	16.4
WNY-183	DW	X			11/16/16	1025	1	X	7.34	3.1	21.2
WNY-118	DW	X			11/16/16	1100	1	X	7.78	3.4	19.6
WNY-175	DW	X			11/16/16	1140	1	X	7.69	2.2	19.4
WNY-212	DW	X			11/16/16	0852	1	X	7.84	3.3	18.6
WNY-218	DW	X			11/16/16	0824	1	X	7.95	2.8	18.6

<b>Possible Hazard Identification:</b> <input type="checkbox"/> Hazardous <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Radioactive		<b>Sample Disposition:</b> <input checked="" type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive	
<b>Number of Containers:</b>		<b>Received By (signature)</b>	
Cooler Number: 1 Temp upon receipt (°C): 1.8°C		Date/Time: 11/16/16 1310	
Sample Received on Ice or Refrigerated from Client: Yes/No 11/16/16 1310 Yes/No		Received By (signature)	
Relinquished By (signature)		Date/Time	
Relinquished By (signature)		Received for Lab By (signature)	
Relinquished By (signature)		Date/Time	

\* Please notify lab prior to drop off.  
 \*\* Surcharge May Apply to add QC Packages  
 \*\*\*\* Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid (S), Oil(O), Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)



## Microbac Laboratories, Inc.

Baltimore Division  
2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800  
Fax: 410-633-6553  
[www.microbac.com](http://www.microbac.com)

### COVER LETTER

Kosala De Silva  
Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045  
RE: WNY

November 07, 2016  
Report No.: 16K0430

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 11/04/2016 11:55.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

11/7/2016

Final report reviewed by:

Curtis B. Read/Project Manager

Report issue date

*All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.*

*If we have not met or exceeded your expectations, please contact Curtis B. Read/Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at [trevor.boyce@microbac.com](mailto:trevor.boyce@microbac.com)*



## Microbac Laboratories, Inc.

Baltimore Division

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800

Fax: 410-633-6553

www.microbac.com

### CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0430  
Reported: 11/07/2016 12:18

### SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
WNY-70 (Upstream)	16K0430-01	Drinking Water	Grab	11/04/2016 10:02	11/04/2016 11:55
WNY-111	16K0430-02	Drinking Water	Grab	11/04/2016 07:53	11/04/2016 11:55
WNY-33 (Downstream)	16K0430-03	Drinking Water	Grab	11/04/2016 08:13	11/04/2016 11:55
WNY-183 (Upstream)	16K0430-04	Drinking Water	Grab	11/04/2016 09:29	11/04/2016 11:55
WNY-105	16K0430-05	Drinking Water	Grab	11/04/2016 09:04	11/04/2016 11:55
WNY-22 (Downstream)	16K0430-06	Drinking Water	Grab	11/04/2016 08:38	11/04/2016 11:55

Microbac Laboratories, Inc. - Baltimore

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Curtis B. Read, Project Manager

Original Report

Page 2 of 13



# Microbac Laboratories, Inc.

Baltimore Division

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800

Fax: 410-633-6553

www.microbac.com

## CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0430  
Reported: 11/07/2016 12:18

### WNY-70 (Upstream)

16K0430-01 (Drinking Water) Sampled: 11/04/2016 10:02; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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#### Field Analysis

Analyst:	NA	pH:	7.78	Flow (g/min):	NA	Res. Cl (mg/L):	0.55	GW Elev.(ft):	NA
Temp. (C):	21.5	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

Coliform, Total	Negative	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert
E. Coli	Negative	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Curtis B. Read, Project Manager

Original Report





# Microbac Laboratories, Inc.

Baltimore Division

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Phone: 410-633-1800

Fax: 410-633-6553

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## CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0430  
Reported: 11/07/2016 12:18

### WNY-111

16K0430-02 (Drinking Water) Sampled: 11/04/2016 07:53; Type: Grab

Reporting											
Analyte		Result		Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.99	Flow (g/min):	NA	Res. Cl (mg/L):	2.9	GW Elev.(ft):	NA		
Temp. (C):	19.4	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA		
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA		

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Negative</b>		per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>		per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

Curtis B. Read, Project Manager

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Original Report

Page 4 of 13

**CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K0430  
 Reported: 11/07/2016 12:18

**WNY-33 (Downstream)**
**16K0430-03 (Drinking Water) Sampled: 11/04/2016 08:13; Type: Grab**

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
<b>Field Analysis</b>									
<b>Analyst:</b>	NA	<b>pH:</b>	7.89	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.4	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	19.3	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

**Microbac Laboratories, Inc. - Baltimore**
**Microbiology**

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*


Curtis B. Read, Project Manager

**Original Report**

Page 5 of 13

**CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K0430  
 Reported: 11/07/2016 12:18

**WNY-183 (Upstream)**
**16K0430-04 (Drinking Water) Sampled: 11/04/2016 09:29; Type: Grab**

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
<b>Field Analysis</b>									
<b>Analyst:</b>	NA	<b>pH:</b>	7.84	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	2.5	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	21.5	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

**Microbac Laboratories, Inc. - Baltimore**
**Microbiology**

<b>Coliform, Total</b>	<b>Negative</b>		per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>		per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

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Curtis B. Read, Project Manager

**Original Report**

Page 6 of 13

**CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K0430  
 Reported: 11/07/2016 12:18

**WNY-105**
**16K0430-05 (Drinking Water) Sampled: 11/04/2016 09:04; Type: Grab**

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
<b>Field Analysis</b>									
<b>Analyst:</b>	NA	<b>pH:</b>	7.96	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.2	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	19.3	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

**Microbac Laboratories, Inc. - Baltimore**
**Microbiology**

<b>Coliform, Total</b>	<b>Positive</b>	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*


Curtis B. Read, Project Manager

**Original Report**

Page 7 of 13

**CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K0430  
 Reported: 11/07/2016 12:18

**WNY-22 (Downstream)**
**16K0430-06 (Drinking Water) Sampled: 11/04/2016 08:38; Type: Grab**

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
<b>Field Analysis</b>									
<b>Analyst:</b>	NA	<b>pH:</b>	7.99	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	2.9	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	20.2	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

**Microbac Laboratories, Inc. - Baltimore**
**Microbiology**

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*


Curtis B. Read, Project Manager

**Original Report**

Page 8 of 13

### CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

Report: 16K0430  
 Reported: 11/07/2016 12:18

#### Project Requested Certification(s):

A2LA (Environmental)  
 State of Maryland (Drinking Water)

#### *Analyte Certification Exception Summary*

No certification exceptions

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

#### Certification List

*Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.*

Code	Description	Certification Number	Expires
<b>Microbac Laboratories, Inc. - Baltimore</b>			
A2LA1	A2LA (Biology)	410.02	04/30/2017
A2LA2	A2LA (Environmental)	410.01	04/30/2017
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460285	03/14/2017
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2017
Pb	Environmental Lead (ELLAP)	410.01	04/30/2017
MD	State of Maryland (Drinking Water)	109	06/30/2017
WV	West Virginia	054	08/31/2017
<b>Microbac Laboratories, Inc. - Richmond</b>			
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2017

Microbac Laboratories, Inc. - Baltimore

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Curtis B. Read, Project Manager

**Original Report**

**Page 9 of 13**



## Microbac Laboratories, Inc.

Baltimore Division

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Phone: 410-633-1800

Fax: 410-633-6553

www.microbac.com

### CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0430  
Reported: 11/07/2016 12:18

### Qualifiers/Notes and Definitions

#### *General Definitions:*

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



**Microbac Laboratories, Inc.**  
Baltimore Division  
2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800  
Fax: 410-633-6553  
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**Cooler Receipt Log**

---

<b>Cooler ID:</b>	Default Cooler	<b>Cooler Temp:</b>	0.40°C	<b>Work Order:</b>	16K0430
Custody Seals Intact:	Yes	COC/Containers Agree:		Yes	
Containers Intact:	Yes	Correct Preservation:		Yes	
Received On Ice:	Yes	Correct Number of Containers Received:		Yes	
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing:		Yes	
COC Present:	Yes	Samples Received in Proper Condition:		Yes	

---

**Comments:**





Microbac Laboratories Inc., Baltimore Division  
2101 Van Daman St, Baltimore, MD 21224  
Tel: 410-633-1800  
www.microbac.com

## Chain of Custody Record

Instructions for completing the Chain of Custody Record on back.

Page 1 of 1

Customer  
Name: Inspection Experts Inc.  
Address: 9220 Rumsey Road, Bay #5  
Columbia, MD 21045

Project Information  
Name: WNY  
Number: 15-0011-214  
PO: \_\_\_\_\_

Turn Around Time  
☒ Standard ☐ RUSH\*  
Needed By: \_\_\_\_\_

Compliance  
☐ Yes ☐ No  
Agency: \_\_\_\_\_

Contact  
Name: Kosala De Silva  
Number: 410-715-3939  
Email: kosala@ieinc.net

Sampler  
Name: Gayan Kulathane  
Phone: 240-252-0841  
Cert ID: 0697GK

Report Options  
☐ EDD  
☒ Email  
☐ Fax  
kosala@ieinc.net

QC Package  
☒ Level I  
☐ Level II\*\*  
☐ Level III\*\*  
☐ Level IV\*\*



Client Sample ID	Matrix****	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	TC P/A SM9223B	pH	Temp (°C)	Total Chlorine (mg/L)	Comments
WNY-70 (Upstream)	DW	X			11/04/16	1002	1	X	7.78	21.5	0.55	
WNY-111	DW	X			11/04/16	0753	1	X	7.99	19.4	2.9	
WNY-33 (Downstream)	DW	X			11/04/16	0813	1	X	7.89	19.3	3.4	
WNY-183 (Upstream)	DW	X			11/04/16	0929	1	X	7.84	21.5	2.5	
WNY-105	DW	X			11/04/16	0904	1	X	7.96	19.3	3.2	
WNY-22 (Downstream)	DW	X			11/04/16	0838	1	X	7.99	20.2	2.9	

Possible Hazard Identification	<input type="checkbox"/> Hazardous <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Radioactive	Sample Disposition	<input checked="" type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive		
Number of Containers:	Sampled By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation
Cooler Number: 1	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation
Temp upon receipt (°C): 9.4°C	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation
Sample Received on Ice or Refrigerated from Client: Yes/No	Printed Name/Affiliation	Date/Time	Received for Lab By (signature)	Printed Name/Affiliation	
Radiation Scan Acceptable: Yes/No					

WHITE - ORIGINAL LAB YELLOW - RECEIPT

Page 1 of 1

rev.12/11/12

\*\*\* Please notify lab prior to drop off.  
\*\* Surcharge May Apply to add'l QC Packages  
\*\*\* Sampler certification ID needed for some agencies.  
\*\*\*\* Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid (S), Oil(O), Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

Instructions for completing the Chain of Custody Record

Microbac Laboratories, Inc., Baltimore Division  
Control # 606-03  
Effective Date: 07/11/2016  
Page 1 of 1

Water Soil Wipes Oil Filter Solid  
Sludge Food Swab Other

Type of Sample:

*H<sub>2</sub>SO<sub>4</sub> – Sulfuric Acid, HNO<sub>3</sub> – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate*

Comments: \_\_\_\_\_



## Microbac Laboratories, Inc.

Baltimore Division  
2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800  
Fax: 410-633-6553  
[www.microbac.com](http://www.microbac.com)

### COVER LETTER

Kosala De Silva  
Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045  
RE: WNY

November 09, 2016  
Report No.: 16K0596

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 11/08/2016 12:15.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

11/9/2016

Final report reviewed by:

Curtis B. Read/Project Manager

Report issue date

*All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.*

*If we have not met or exceeded your expectations, please contact Curtis B. Read/Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at [trevor.boyce@microbac.com](mailto:trevor.boyce@microbac.com)*



## Microbac Laboratories, Inc.

Baltimore Division

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800

Fax: 410-633-6553

www.microbac.com

### CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: WNY  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0596  
Reported: 11/09/2016 11:36

### SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
WNY-183 (Upstream)	16K0596-01	Drinking Water	Grab	11/08/2016 09:20	11/08/2016 12:15
WNY-105-1	16K0596-02	Drinking Water	Grab	11/08/2016 08:37	11/08/2016 12:15
WNY-105-2	16K0596-03	Drinking Water	Grab	11/08/2016 08:55	11/08/2016 12:15
WNY-22 (Downstream)	16K0596-04	Drinking Water	Grab	11/08/2016 08:06	11/08/2016 12:15

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Curtis B. Read, Project Manager

Original Report

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**WNY-183 (Upstream)**  
**16K0596-01 (Drinking Water) Sampled: 11/08/2016 09:20; Type: Grab**

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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**Field Analysis**

<b>Analyst:</b>	NA	<b>pH:</b>	7.92	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	2.4	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	21.6	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

**Microbac Laboratories, Inc. - Baltimore**

**Microbiology**

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert

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Baltimore Division

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Project Number: 15-0011-214  
Project Manager: Kosala De Silva

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Reported: 11/09/2016 11:36

### WNY-105-1

16K0596-02 (Drinking Water) Sampled: 11/08/2016 08:37; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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#### Field Analysis

<b>Analyst:</b>	NA	<b>pH:</b>	7.99	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.1	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	18.5	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert

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Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0596  
Reported: 11/09/2016 11:36

### WNY-105-2

16K0596-03 (Drinking Water) Sampled: 11/08/2016 08:55; Type: Grab

Analyte	Result	Reporting		Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Limit								

#### Field Analysis

<b>Analyst:</b>	NA	<b>pH:</b>	7.91	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.4	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	18.6	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert

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Original Report

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**CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K0596  
 Reported: 11/09/2016 11:36

**WNY-22 (Downstream)**
**16K0596-04 (Drinking Water) Sampled: 11/08/2016 08:06; Type: Grab**

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
<b>Field Analysis</b>									
<b>Analyst:</b>	NA	<b>pH:</b>	7.95	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	3.3	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	16.9	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

**Microbac Laboratories, Inc. - Baltimore**
**Microbiology**

<b>Coliform, Total</b>	<b>Negative</b>		per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>		per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

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**Original Report**

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**CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: WNY  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K0596  
 Reported: 11/09/2016 11:36

**Project Requested Certification(s):**

 A2LA (Environmental)  
 State of Maryland (Drinking Water)

**Analyte Certification Exception Summary**

No certification exceptions

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

**Certification List**

*Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.*

Code	Description	Certification Number	Expires
<b>Microbac Laboratories, Inc. - Baltimore</b>			
A2LA1	A2LA (Biology)	410.02	04/30/2017
A2LA2	A2LA (Environmental)	410.01	04/30/2017
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460285	03/14/2017
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2017
Pb	Environmental Lead (ELLAP)	410.01	04/30/2017
MD	State of Maryland (Drinking Water)	109	06/30/2017
WV	West Virginia	054	08/31/2017
<b>Microbac Laboratories, Inc. - Richmond</b>			
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2017

Microbac Laboratories, Inc. - Baltimore

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Curtis B. Read, Project Manager

**Original Report**

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Baltimore Division

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Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0596  
Reported: 11/09/2016 11:36

### Qualifiers/Notes and Definitions

#### *General Definitions:*

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



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**Cooler Receipt Log**

---

<b>Cooler ID:</b>	Default Cooler	<b>Cooler Temp:</b>	-0.20°C	<b>Work Order:</b>	16K0596
Custody Seals Intact:	Yes	COC/Containers Agree:			Yes
Containers Intact:	Yes	Correct Preservation:			Yes
Received On Ice:	Yes	Correct Number of Containers Received:			Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing:			Yes
COC Present:	Yes	Samples Received in Proper Condition:			Yes

---

**Comments:**



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Tel: 410-633-1800  
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# Chain of Custody Record

Page 1 of 1

<b>Customer</b> Name: <u>Inspection Experts Inc.</u> Address: <u>9220 Rumsey Road, Bay #5</u> <u>Columbia, MD 21045</u>	<b>Project Information</b> Name: <u>WNY</u> Number: <u>15-0011-214</u> PO: <u></u>	<b>Turn Around Time</b> <input checked="" type="radio"/> Standard <input type="radio"/> RUSH* Needed By: <u></u>	<b>Compliance</b> <input type="radio"/> Yes <input type="radio"/> No Agency: <u></u>
<b>Contact</b> Name: <u>Kosala De Silva</u> Number: <u>410-715-3939</u> Email: <u>kosala@ieinc.net</u>	<b>Sampler</b> Name: <u>Gayan Kularathne</u> Phone: <u>240-252-0841</u> Cert ID:*** <u>0697GK</u>	<b>Report Options</b> <input type="checkbox"/> EDD <u></u> <input checked="" type="checkbox"/> Email <u>kosala@ieinc.net</u> <input type="checkbox"/> Fax <u></u>	<b>QC Package</b> <input checked="" type="radio"/> Level I <input type="radio"/> Level II** <input type="radio"/> Level III** <input type="radio"/> Level IV**

Client Sample ID	Matrix***	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analysis					Total Chlorine (mg/l)	Comments
								TC PIA SM923B		pH	Temp (°C)			
WNY-183 (Upstream)	DW	X			11/08/16	0920	1	X		7.92	21.6		2.4	
WNY-105-1	DW	X			11/08/16	0837	1	X		7.99	18.5		3.1	
WNY-105-2	DW	X			11/08/16	0855	1	X		7.91	18.6		3.4	
WNY-22 (Downstream)	DW	X			11/08/16	0806	1	X		7.95	16.9		3.3	

Possible Hazard Identification ☐ Hazardous ☐ Non-Hazardous ☐ Radioactive Sample Disposition ☒ Dispose as appropriate ☐ Return ☐ Archive

Number of Containers: Cooler Number: <u>1</u> Temp upon receipt(°C): <u>-0.2°C</u> Sample Received on Ice or Refrigerated from Client: <input checked="" type="radio"/> Yes <input type="radio"/> No Radiation Scan Acceptable: <u>Yes</u> <input checked="" type="radio"/> Yes <input type="radio"/> No	<b>Sampled By (signature)</b> <u>Gayan Kularathne</u> <b>Relinquished By (signature)</b> <u>Steve Greene</u> <b>Relinquished By (signature)</b> <u>Steve Greene</u>	<b>Printed Name/Affiliation</b> <u>Gayan Kularathne</u> <b>Printed Name/Affiliation</b> <u>STEVE GREENE</u> <b>Printed Name/Affiliation</b> <u>STEVE GREENE</u>	<b>Date/Time</b> <u>11/08/16 9:35</u> <b>Date/Time</b> <u>11/08/16 12:15</u> <b>Date/Time</b> <u></u>	<b>Received By (signature)</b> <u>Steve Greene</u> <b>Received By (signature)</b> <u></u> <b>Received for Lab By (signature)</b> <u></u>	<b>Printed Name/Affiliation</b> <u>STEVE GREENE</u> <b>Printed Name/Affiliation</b> <u></u> <b>Printed Name/Affiliation</b> <u></u>
--	--	--	--	---	--

\* Please notify lab prior to drop off.

WHITE - ORIGINAL LAB YELLOW - RECEIPT

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rev.121112

\*\* Surcharge May Apply to add'l QC Packages \*\*\* Sampler certification ID needed for some agencies.

\*\*\*\* Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid (S), Oil(O), Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

Instructions for completing the Chain of Custody Record

16K0596



# Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Microbac Laboratories, Inc., Baltimore Division  
Control # 606-03  
Effective Date: 07/11/2016  
Page 1 of 1

Number of Coolers Received: 1

Client: Inspection Experts

Form Completed By: Anthony Smith

Shipper:

Custody Tape Intact:

Containers Intact:

Sample Received on Ice or refrigerated:

Radiation Scan:

Chain of Custody Present with shipment:

Sample Bottle IDs agree with COC:

Preservation requirements met:

Correct Number of Containers / Sample Volume:

Headspace in container:

Type of Sample:

Receipt Date / Time: 11/08/16 12:15

Work Order # \_\_\_\_\_

☐ Microbac ☒ Client ☐ UPS ☐ FedEx

YES / NO / NA

YES / NO

YES / NO / NA

Infrared (IR) Temperature: -0.2 °C

☒ Negative or N/A mR/hr

YES / NO

YES / NO

YES / NO (Not Checked)

YES / NO (If No, contact client immediately)

YES / NO / NA

Water Soil Wipes Oil Filter Solid

Sludge Food Swab Other

## Container Type / Quantity:

A -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid:	If preserved pH <2, pH >10
B -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
C -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
D -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
E -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
H -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
K -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
L -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
M -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
P -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
W -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
V -	Unpreserved	HCl	HCl / Ascorbic Acid	HCl / NaTHIO (Checked at time of Analysis)			
F -	Unpreserved	NaTHIO (Checked at time of Analysis)					
S -	Unpreserved	4	NaTHIO (Checked at time of Analysis)				
SN -	Unpreserved	NaTHIO		NaTHIO/EDTA (Checked at time of Analysis)			
	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10

## Describe preservation requirements not met:

All Acid preserved <2 pH

NaOH preserved >12 pH

All others >2 and <10 (usually 4-8)

Sample ID: \_\_\_\_\_ H2SO4 HNO3 NaOH \_\_\_\_\_ mls added

Sample ID: \_\_\_\_\_ H2SO4 HNO3 NaOH \_\_\_\_\_ mls added

Sample ID: \_\_\_\_\_ H2SO4 HNO3 NaOH \_\_\_\_\_ mls added

Sample ID: \_\_\_\_\_ H2SO4 HNO3 NaOH \_\_\_\_\_ mls added

H2SO4 - Sulfuric Acid, HNO3 - Nitric Acid, NaOH - Sodium Hydroxide, ASC - Ascorbic Acid, NaTHIO - Sodium Thiosulfate

Describe Anomalies:

Contact information / Summary of Actions:

Date / Time: \_\_\_\_\_ Contact: \_\_\_\_\_ Contact By: \_\_\_\_\_

Comments: \_\_\_\_\_